

THE ORIGIN,
NATURE AND PROPERTIES OF LIGHT;

A
S E R M O N.

BY
HENRY HUNTER, D. D.

[*Price One Shilling.*]

ORIGIN, NATURE, AND PROPERTIES OF LIGHT

S E R M O N

THE SOLIDITY

NATURE AND PROPERTIES OF LIGHT

S E R M O N

HENRY HUNTER, D. D.

MINISTER OF THE ST. ANDREW'S CHURCH, LONDON

[The Sermon]

Light, the first of the elements of the universe, is the first of the elements of the human mind. It is the first of the elements of the human mind, and it is the first of the elements of the human mind. It is the first of the elements of the human mind, and it is the first of the elements of the human mind. It is the first of the elements of the human mind, and it is the first of the elements of the human mind.

Published by the Author

LONDON

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BOOKSHELF TO THE SOCIETY

1704

THE
ORIGIN, NATURE, AND PROPERTIES OF LIGHT.

A
S E R M O N

PREACHED BEFORE
THE SOCIETY
FOR
PROMOTING RELIGIOUS KNOWLEDGE
AMONG
THE POOR,
AT THEIR ANNUAL MEETING, Nov. 14,
1793.

By HENRY HUNTER, D. D.
MINISTER OF THE SCOTS CHURCH, LONDON-WALL.

Hail, holy Light, offspring of Heaven first-born,
Or of the Eternal co-eternal beam !
May I express thee unblamed ? Since God is Light,
And never but in unapproached Light
Dwelt from eternity ; dwelt then in thee,
Bright effluence of bright essence increate.
Or hear'st thou rather pure ethereal stream,
Whose fountain who shall tell ?

MILTON.

Published by Request of the Stewards.

LONDON:

PRINTED FOR THE AUTHOR, BY T. GILLET, BARTHOLOMEW-CLOSE,
AND SOLD BY T. FIELD, No. 11, CORNHILL,
BOOKSELLER TO THE SOCIETY.

1793.

ON THE NATURE AND PROPERTIES OF LIGHT

SEERMON

THE SOCIETY

FOR PROMOTING RELIGIOUS KNOWLEDGE

STEWARDS OF THE SOCIETY
THE POOR.

AT THEIR ANNUAL MEETING, NOV. 1847



BY HENRY D. D.

MINISTER OF THE RED LION, BUCKINGHAM PALACE

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2 1/2

THESE SERMONS, WHICH WERE
PREACHED AT THE ANNUAL MEETING
OF THE SOCIETY, ON THE 11TH
OF NOVEMBER, 1847, ARE
NOW PUBLISHED BY THE
STEWARDS OF THE SOCIETY,
FOR THE POOR.

AND BY THE
STEWARDS OF THE SOCIETY,
FOR THE POOR.

1847

to
ROBERT MAITLAND, Esq. Treasurer,

Mr. ALEX. WYLIE,	Mr. RICHARD SMALES,
Mr. ROBERT BROWNING,	Mr. HENRY EGGER,
Mr. SAMUEL CARTER,	Mr. JAMES WARE,
Mr. JOHN P. LEARD,	Mr. WILLIAM GALE,
Mr. THOMAS STRONG,	THOMAS PLATT, Esq.
Mr. JOHN MAITLAND, Jun.	Mr. JOHN HAMMOND,

STEWARDS OF THE SOCIETY

FOR PROMOTING

RELIGIOUS KNOWLEDGE AMONG THE POOR.

For the Year 1793.

GENTLEMEN,

THIS Discourse having been honoured with your approbation, and venturing into the light at your request, you have made yourselves, in some measure, responsible for it; I must therefore take the liberty to recommend it to your protection.

I have, likewise, in compliance with your wishes, prefixed a short statement

ment of the institution, the views, the exertions, and the success, of the Society, for the information of those into whose hands the Sermon may fall, in hope they may be induced to contribute their assistance, toward the support and extension of this good work.

It must yield unfeigned satisfaction to every one who fears God, and loves his Country, to reflect, that while the frantic Rulers of a great neighbouring Nation are endeavouring to establish Atheism and Irreligion by a law; various, unremitting, and prosperous efforts are daily made, by persons of every rank, among us, to diffuse useful knowledge, and to enforce the obligations of practical Christianity. May this excellent spirit be ever kept alive in every corner of our highly favoured Island.

The

The active part which you have lately taken in promoting the benevolent and truly patriotic purposes of this Institution, merits the acknowledgments, not of the Society only, but of your Country; in as much as the knowledge, love, and practice of the "Truth, as it is in JESUS," are the choicest ingredients in the character of a good Citizen and loyal Subject.

With those of the Public, be pleased to accept the sincere thanks of,

GENTLEMEN,

Your obliged, and

Obedient humble Servant,

HENRY HUNTER.

Bethnal-Green Road,

Nov. 23, 1793.

A
SHORT ACCOUNT
OF THE
RISE, PROGRESS, AND PRESENT STATE
OF
THE SOCIETY

For promoting Religious Knowledge among the Poor.

THIS Society was instituted in the year 1750. A laudable zeal for the glory of God, and compaſſion for precious ſouls, *perifhing through lack of knowledge*, ſuggeſted this benevolent deſign, and happily effected it. At that period, * ſome perſons of pious, liberal, and enlarged minds, deeply impreſſed with a ſenſe of the deplorable ignorance which prevailed in the lower ranks of the community, agreed to aſſociate for the purpoſe of diſſeminating, among ſuch, the knowledge of Divine Truth, by furniſhing them with Bibles, and with other plain, practical Books, on religious ſubjects. And who that believes and prizes the **SCRIPTURES**, as a Revelation from Heaven; who that has himſelf taſted the ſweetneſs, and felt the power, of the ſacred truths which they contain, but muſt be diſpoſed to make others partake with them of the ſame light and joy?

This ſuggeſtion was a live coal from the altar of God. It illuminated and kindled as it went: The holy ardor was communicated from ſoul to ſoul, and, through the bleſſing of Providence, the hallowed ſpark is increaſed and multiplied into a glorious conſtellation. The hand of God has ſtamped upon it the

* The name of the late Mr. *Benjamin Forſitt*, of Leadenhall-Street, deſerves to be here mentioned with diſtinguiſhed reſpect; a man whoſe enlarged and benevolent ſoul was habitually employed in deviſing *liberal things* toward his fellow creatures, as a tribute of gratitude and praiſe to his **CREATOR**. He it was in whoſe ardent mind the idea of this undertaking originated; he planned the fabric, he put the machine in motion, he lived to ſee the deſign proſpering; and let him be transmitted to poſterity as the **FATHER** of the Society.

ſolemn

97

solemn sanction of almost half a century; a new generation has arisen, and is daily rising, to perpetuate and extend the honourable purpose of their forefathers; a few have gradually become a great multitude; and the Institution, with humble confidence, looks forward to a duration commensurate with that of the sun.

But the Society presumes not to promise itself either stability or success, independent of honest, vigorous, and persevering exertion. Information is accordingly, from time to time, given, of its existence, of its views, and of its proceedings. This address, among other means, will make known, where it may come, that the BOOK SOCIETY, as it is called, is, at the close of the present year, 1793, in full health and growing prosperity: and, in order to the continuance and increase of that prosperity, earnestly solicits the countenance and support of all who wish that Satan's kingdom may be destroyed, and that the empire of knowledge, truth, and love may be extended. Cordially disclaiming every thing that favours of party, it makes a bold appeal to the liberal, and the good of every denomination, to come and help its supporters, to promote a spirit of piety, habits of order and industry, and serious practical godliness, among the more thoughtless and disorderly, because more uninstructed class of their fellow creatures. *The weapons of their warfare, they trust, are not carnal, but mighty, through God, to the pulling down of strong holds.* What they can confidently cast on the care of Heaven, they are neither afraid nor ashamed to recommend to the attention of men. Their object is to diffuse saving truth; and the method they pursue is, to put the word of God into the hand of the young and ignorant, as an allurement to learn to read, and to practise the art, after they have acquired it. A very extensive correspondence, both foreign and domestic, is, from year to year, conveying the pleasing intelligence, that *their labour is not in vain in the Lord.*

The Contributors to this Charity have the satisfaction of being assured, that their bounty cannot possibly be misapplied, for it is in their power, if they please, to be themselves the dispensers of it. A parcel of Books, of a value determined by the sum subscribed, is, according to a strict and fair rotation, set apart to the order of each Subscriber; notice is regularly sent, and sufficient
time

time allowed for claiming them. To be a Contributor is to become a Member, that is, to have the privilege of attending all meetings, and of inspecting and examining all transactions relative to the Institution.

As an earnest of what may be expected in future, the Society beg leave to mention, in one short sentence, what they have already done ; from which, they hope, it will appear, that their efforts to serve the cause of God, and Truth, have been neither injudicious nor inefficient. They beg leave, therefore, to inform the Public, that they have already distributed upwards of *One Hundred and Thirty-six Thousand BIBLES AND TESTAMENTS*, beside a very large number of devotional pieces, and religious tracts, adapted to the purposes of the Society ; so that the great end of their being is, in strictness of speech, to scatter abroad, on the earth, the Word of God. No human composition is sanctioned by their circulation, but upon mature and impartial deliberation, and from a complete and unanimous conviction, that such circulation may contribute to their one great, leading object, *the Promotion of Religious Knowledge among the Poor.*

A List of the Books given away, with their respective prices ; the names of the Subscribers, with a farther account of the Society at large, is annually published, and may be had (*gratis*) of the Bookfeller.

DONATIONS and SUBSCRIPTIONS will be thankfully received by

The Rev. JOHN NEWTON, New-Buildings, Coleman-Street,

The Rev. THOMAS TOWLE, No. 1, Cripplegate-Buildings,

The Rev. Dr. STENNET, Muswell-Hill,

ROBERT MAITLAND, Esq. King's-Arms Yard, *Treasurer*,

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Mr. RICHARD WATTS, No. 10, Bartholomew-Lane, *Secretary*, or

Mr. T. D. HARRIOTT, No. 79, Newgate-Street, who *collects the Subscriptions.*

ORIGIN,
NATURE, AND PROPERTIES
OF
LIGHT.

GEN. i. 3.

*God said, Let there be LIGHT : and there was
LIGHT.*

SOME subjects derive lustre and force from felicity of expression ; others, in native majesty, leave all the powers of expression panting behind, and, like real beauty, are “ when unadorned adorned the most.” In some happy instances they communicate mutual aid ; nobility of subject lending dignity and energy to expression, while simplicity and grace of language lend additional brilliancy and importance to the subject. One of these happy instances is now before us. The subject is LIGHT, “ the beginning of the “ creation of God ;” and the description of its first formation corresponds to the sublimity of the glorious theme, “ God said, let there be
B light,

light, and there was light.*” What simplicity ! what elevation !

The preceding context represents to us the vast universe in its first principles, a rude, formless, discordant mass, overspread with darkness ; immensity without order, or beauty, or magnificence ; no life, no motion ; existence to no use or end : “ The earth “ was without form and void ; and darkness “ was upon the face of the deep.” And

* *Longinus*, the celebrated Critic of Antiquity, in his Treatise on the *Sublime*, introduces this passage from the Writings of *Moses*, as a happy instance of real majesty, in both the thought and the expression. His words are, Ταύτη καὶ ὁ τῶν Ἰουδαίων Θεομοθεύς, ἔχ' ὁ τυχαῖν Ἀνὴρ, ἐπιθεὶς τὴν τῷ Θεῷ δύναμιν, κατὰ τὴν ἀξίαν ἐχώρησε, κατέφηνεν· εὐθὺς ἐν τῇ εισβολῇ γράφας τῶν νόμων, “ Εἶπεν ὁ Θεός” φησί· τί ; “ γενέσθω φῶς, καὶ ἐγένετο. γένεθω γῆ, καὶ ἐγένετο.” “ The Jewish Legislator too, a Man of no ordinary ability, excels in this ; having conceived an idea of the power of the Deity, worthy of the subject, he thus expresses it, in the exordium of his Code of Laws, “ God said” what ? “ Light, Be ; and it was : Earth, Be ; and it was.” Why did he not enrich his elegant little work with more examples from the SACRED VOLUME, and thereby farther approve his taste and judgment ?

It is not easy to convey the simplicity and force of the original into modern language : וַיֹּאמֶר אֱלֹהִים יְהי אוֹר וַיְהי אוֹר — “ Εἶπεν ὁ Θεός· γενεθῶ φῶς· καὶ ἐγένετο φῶς. *Dixitque Deus, Lux, ESTO ; & Lux erat ;* literally, in French, *Et Dieu disoit, Lumière, Sois : et Lumière fut ;* in English ; *God said, Light, Be : and L was.*

thus,

thus, had no vital principle existed, it might have for ever remained. But lo, the impress of Deity is upon the unbounded, lifeless, unproductive chaos, and the dormant seeds of animated nature are warmed into exertion and expansion: "The spirit of God" moved upon the face of the waters:" hence the splendor and harmony of these spheres; hence life in all its gradations, from the plant to the animal, from the animal to man, from man to angels, and these again in endless progression, till we return at length, from whence we set out, to the *living God*.

The Fountain of being alone could have supplied us with the history of this all-important period; and the same ETERNAL MIND which planned and executed all these suns, and all their systems, evidently dictated the wondrous "story of their birth," of their rise and progress, to the human mind which conceived them, to the ear which heard, and the hand which wrote; even to

That shepherd who first taught the chosen seed
In the beginning how the Heavens and Earth
Rose out of Chaos.

MILTON.

In the view of addressing a Society whose professed, and most meritorious, object it is, to diffuse the light of saving truth, the subject of *light* in general occurred to my mind as most congenial to their views, and as furnishing the most ample matter to their Preacher for impressing on their minds, on his own, and on those who may hear him, the utility and importance of the Institution, that we may not be weary in well-doing, but persevere in promoting and extending the benefits of a purpose thus sacred to God and to humanity. God grant that he may not "darken counsel by words without knowledge."

The inspired historian leads us directly to the great *source* of light, "God said." All was hitherto obscurity, and silence, and solitude, He only excepted "in whom is no darkness "at all," who *was* from eternity, whose eye even now "saw the end from the beginning," scattered the universal gloom, surveyed rising worlds, marked their boundaries, assigned their stations, adjusted them to their ends.

Were it possible that intellectual *created* nature should then have existed, what could it

“ have “ known of the mind of the LORD,
“ or, being his counsellor,” how could it
have taught him the order of procedure? He
proceeds like himself: the eternal silence is
at length broken, the first articulate sound is
heard through every particle of the vast pro-
found; in majestic dignity and ease He “ speaks,
“ and it is done, He gives commandment, and
“ it stands fast;” every latent luminous par-
ticle is in motion, an image of himself starts
into being, “ Let there be light,” and it in-
stantly arises, and darkness, one of the pro-
perties of the chaotic state, flies away. Thus
the Creator first manifested himself in the
light, which was in its turn to make mani-
fest every other creature of his power. And
what did this new-born light disclose? The
antecedent reign, till now invisible, of con-
fusion and discord. And what is this won-
derful, primeval production of the Almighty,
which existed before the sun, which was in
process of time collected into a variety of glo-
rious orbs, to be thence emitted through the
whole extent of the creation, to become a
source of universal and unspeakable joy? Too
simple to be described, too glorious to be em-

bellished, too mysterious to be explained, and, alas, too common to be prized, I must content myself with suggesting a few of its more obvious qualities ; its nature and essence who is able to unfold ?

The *first* and most striking quality of light is its power of communication. As the uncreated has communicated Himself to created light, his brightest image here below, so light again communicates a secondary image where-soever it falls. Some bodies are indeed more susceptible of the impression of light than others. Such as are pellucid easily transmit the rays ; such as are polished easily reflect them, and from one to another, in similar direction, without end. But even the most opaque and colourless substances are, to a certain degree, enlivened, irradiated, tinged by the rays of the sun falling upon them. The gilded palace reflects indeed a brighter lustre, but the dun cottage refuses not to yield its sober, dusky acknowledgment, that the glorious orb of day has arisen upon it. The gaudy butterfly and the drowsy beetle ; the scarlet rose, the blue violet, the yellow jonquil ; the sapphire, the emerald, the topaz, each

each in his degree, receives and communicates the light. In the dark, all are of one hue, nothing is received, and consequently nothing can be given back.

2dly. Another remarkable property of light is the inconceivable velocity of its motion. Display but a glimmering taper from the summit of yonder tower, at the dark hour of midnight, and with the rapidity of thought it reaches the eye stationed on that lofty mountain, though valleys, and rivers, and seas intervene. Behold the sun arises, and in less time than is requisite to reduce his distance from the earth, in diameters of our globe, to leagues, and from leagues to miles, to write down and to recite the sum, I am already cheered with his rays, and "feel his sovereign "vital lamp." What do you think is the fact here, a fact as demonstrably certain as that 2 added to 3 amount to 5? Light travels down to us from the sun, in a space of time somewhat less than 8 minutes, say the half of the quarter of an hour: of this portion of time you have a distinct idea, but of the distance, and consequently of the rapidity of light's progress, you can absolutely form no idea at

all; it is expressed to the eye indeed by cyphers, and to the ear by sounds, but thought is lost while it attempts the computation; the distance is 71,730,000 miles.

Let me illustrate this by an example. From this city to Bath is 108 miles; the speediest of our modes of conveyance requires more than 14 hours to perform that distance; the circumference of the globe is about 24,000 miles; were it possible, then, to travel round the globe without the interruption of a single instant, and at the rate of the speediest carriage, it would require 130 days, of 24 hours each, to perform a single round; this multiplied by 3000, the distance of the sun being so many times the circumference of the globe, produces 1077 years, the time requisite to perform a distance equal to that of the sun, without a moment's interruption, and at the speediest rate of travelling. Now, light travels through that prodigious distance in little more than 7 minutes; its velocity, therefore, far exceeds all human comprehension. Striking representation of that inconceivable, that awful rapidity, with which the Creator communicates himself to his creatures! Even
light

light requires time to run its race; but before the Fountain of light, distance is swallowed up, and time is lost. I beg leave to suggest a 3d. Singular quality of this wonderful, this glorious creature of God: Though its motion be thus inconceivably rapid, it is not only perfectly harmless, but highly grateful and salutary. The motion of every other body, when violently accelerated, carries death and destruction along with it. A globe of iron hurled from the engine by the force of gunpowder, pierces through ribs of solid oak, and shatters to atoms the flinty rock. The river, swelled by the torrent from the mountain, with resistless impetuosity sweeps before it the well-compacted bridge, the shepherd and his flock, the husbandman and his harvest, the mechanic and his forge. Let air, "thin air" be excited into more than ordinary speed, and it gradually rises from the pleasant breeze, to the brisk gale, to the stormy wind, to the roaring tempest, to the merciless hurricane; the cedar of Lebanon is torn up by the roots, the ocean rages, and proud victorious navies are buried in the deep. But what is the rapidity of any, of all of these compared

compared to that of light? Yet God hath tempered its rapidity so, that the most delicate of our organs, the eye, not only sustains no injury, but derives unspeakable benefit and delight from this instantaneous transmission of its rays. But that same God can, when he will, arm it, too, with sudden and irresistible death. See, it bursts from yonder thundery cloud, and “the cloud-capt tower” is rent from the summit to the foundation; it falls on hapless man, and the marrow, and the solid bone which contains the marrow, are melted away before it. Pleasing, awful view of the God of Justice, of the God of Love! a consuming fire, a lambent flame! Interesting and instructive view of the sovereign power which he possesses, which he exercises over every creature, to make it a well-spring of delight, or a minister of vengeance! Glorious display of mercy overflowing, but judgment restrained? Light, an universal, perennial, permanent source of life and joy; but only in a few rarer, transient instances, the instrument of death.

4th. Another precious and important quality of light, is its furnishing man with an extensive

extensive and useful power of discriminating object from object; and to this end Providence has graciously supplied him with an organ completely adapted to the exercise of this power. Let light be withdrawn, and this fair and well-ordered frame of nature reverts to chaos; "ancient night" resumes her murky empire: every thing is confounded: for what is beauty that is not seen; what is order and harmony not understood? And nothing can be seen without light, nothing understood or distinguished unless the medium be clear. The range of our other senses, how contracted it is! The objects of taste and touch, in order to be discerned, must be closely applied to their respective organs: those of smelling affect us only when brought very near: sound grows fainter and fainter with distance, and, a very few leagues remote, fades and dies: but the eye, aided by light, darts like lightning from pole to pole, measures the planets, discriminates the fixed stars, whose distance far transcends that of the sun; it knows no boundary but the flaming boundaries of the world.

With

With equal facility and advantage it is enabled to contract its sphere; it descends from heaven to earth, from the distant mountain's summit to the adjacent plain; it wanders over the enamelled mead, dwells with ever new delight on "the human face divine," traces the path of the crawling insect. The eye lends additional value to the objects of our other senses; the fragrance of the rose is greatly enhanced by the display of its various and beautiful tints; the relish of what we eat and drink becomes more exquisite, or more insipid and disgusting, according as the eye is pleased or offended; the polish of the marble, the softness of the downy peach, are more grateful to the touch from the concurring testimony of the other sense; and even music, though more independent on vision than the rest, music, at all seasons delightful, gives still more delight when we behold the animated look, the elegant form, the graceful air of the person who sings or plays. But the value and use of this precious, precious organ wholly depend on the presence of light. To be

be in the dark is the same thing with being blind. We are reduced to the narrow, comfortless, uncertain, timid sphere of the prisoner in his dungeon, incapable of distinguishing friend from foe, “presented with “an universal blank; and wisdom at one entrance quite shut out.”

5th. Another property of light is its union with heat. Reflected light is not indeed possessed of this quality, or only in a very inferior degree; but light, issuing immediately from a luminous body, has a certain degree of warmth as well as of lustre; and every body excited to a certain degree of heat, likewise emits rays of light. And what must be the mass of united light and heat, treasured up in yonder glorious Orb; “of this great “world the eye and soul,” to admit of such an amazing and incessant expenditure in all directions, and to remain undiminished, inexhausted by a constant efflux of almost six thousand years! Blessed arrangement of eternal Providence! The same luminary which irradiates my path, and directs me how to escape the snare, the precipice, the enemy, in unbounded profusion dispenses the vital fluid

fluid which cherishes and supports universal nature ; maintains the current in the stream, multiplies and matures the golden harvest, feeds the lamp of life ! Blessed union, the happiest image of Deity here below, vitality and direction in one ; a quickening and an informing spirit ; the principle that puts in motion, and which conducts that motion aright ! Adorable, divine skill, which has planted the habitation of man precisely at the point that terminates the extremes of hot and cold, of oppressive effulgence and glimmering obscurity ; which has so completely adapted the distance, the position, and the motions of our globe to the various nature, demands, and exertions of its various regions, and their various inhabitants, invariably, universally guarding against the *too little* and the *too much* ! “ Great and marvellous are thy works, Lord God Almighty ! Just and true are all thy ways, thou king of Saints.”

That I may not multiply particulars to exhaust your patience and distract your attention, I shall subjoin but one more of the important properties of light, namely

6th. The wonderful facility with which
it

it may be propagated.* “Behold how great
 “a matter a little fire kindleth.” A little
 spark, elicited by the stroke of steel from the
 bosom of the flint, is sufficient to “set on fire
 “the course of nature.” Though all mate-
 rial fire were exhausted, extinguished, with
 the assistance of one of the little bits of glass
 by which weakness of sight is relieved, and
 a moment’s sunshine, and furnished with a
 small morsel of combustible matter, I can
 open to myself a new source of light, and,
 with it, of heat, which may be extended, and
 extended, without limitation. Nay the fric-
 tion of one stick upon another will at length
 be excited into a flame, and supply materials
 of unbounded conflagration. Thus heaven
 from above, and the surface, nay the bowels,
 of the earth beneath, facilitate the production

* This may, at first sight, appear a repetition of the idea sug-
 gested as the first property of light, the power of *communication*.
 But it is not so. By the first, I understand the effect of light as
 merely illuminating, or rendering objects visible; in which case,
 the object is, and remains, wholly passive. But here, light is
 considered in its connection with heat, itself an active principle,
 and communicating its life and activity wherever it is applied.
 A polished ball of iron, when cold, presents an example of the
 former case; a ball made red hot is an instance of the latter.

of

of this salutary, this destructive element, which now animates, and, e'er long, shall devour the world. And thus is every man provided with the means of multiplying his own and increasing his neighbour's comfort, and every man is armed with the most formidable of weapons for self, or for mutual, destruction.

—I have hitherto considered light, and its concomitant, heat, merely as a material substance, perceptible by the corporeal organs. As the object of mind, or spirit, it is of still higher importance, and mental light, with the self same qualities as the material, stands confest a still more glorious display of the Creator's power and goodness. What light is to the eye, that, and inexpressibly more, is knowledge to the soul. What the material world would be without the sun, and what it really is to the blind, the blackness of darkness, such, and much more deplorable a blank is the sphere of science to the illiterate and uninstructed. What stores of useful knowledge are contained in that volume, how fairly it is written, how happily expressed ! Every word is a distillation of honey
from

from the comb. Alas, what avails it? The man has not been taught to read, or it is written in an unknown language; he sees nothing but unmeaning scrawl, where his better educated neighbour discerns truth, beauty, propriety; finds a treasure far richer than those contained in the mines of Potosi; the "word is found of him, and he eats it, "and it is the joy and rejoicing of his heart." The clown sees on that roll only uncouth, unaccountable figures, circles, triangles, squares; to him they suggest no idea, convey no intelligence, he cannot pursue the steps of the demonstration up to its conclusion: another takes it up; to him it is all light, he finds the principles of mechanics, of physics, of astronomy, clearly unfolded and happily applied; he goes "on his way rejoicing," he is more honourable than his ignorant brother, he has advanced one step higher toward the Father of lights. Put that instrument into the hand of the unlearned, and it produces nothing but jargon and discord; the characters, designed to direct the voice or the finger, are to him blots and scratches merely: his neighbour touches it,

C

and

and lo, it discourses heavenly music; these blots and scratches teach the voice to melt into melody, and rouse the trembling chords to harmony: as the experienced eye runs along the line, the ear in unison catches the represented sound, and it drops like manna from the tuneful lips.

This mental light, we said, possesses all the qualities of the material.—Knowledge as naturally illuminates its sphere, as the sun gilds the hemisphere that is turned toward it.

How various, how rapid, the means of communication between soul and soul! with what velocity is thought conveyed by the lightning of the eye; how pleasingly is instruction given, and received, by the gift of speech; with what fidelity is intelligence carried, the friendly hint, the ardent wish, the tender sigh wafted “from Indus to the
“pole,” by the help of letters!

“Truly the light is sweet, and a pleasant
“thing it is for the eyes to behold the
“sun;” and O how pleasing to the mind’s
eye to discern the bright, the lovely form of
sacred truth, that intellectual sun in the
firmament of science; to behold the expan-
sions

sions of heaven-taught wisdom, circle embracing circle, in endless progression, the soul arising from earth to heaven, from the creature to God; winging its ardent flight from the ruins of expiring worlds, to "new heavens, and a new earth, wherein dwelleth righteousness."

By material light we are enabled to distinguish one visible object from another, and, by the eye, to estimate many of their peculiar and distinctive qualities; by the understanding, or mental eye, in like manner, a new world of wonders is discovered and enjoyed; the boundaries of truth and error, justice and violence, sin and duty, are clearly discriminated; the delusive forms which misled childhood, and ignorance, and prejudice; which inspired groundless terror, or confidence equally unreasonable, now wholly disappear, like phantoms of the night, or are seen in their true colours and proportions, and he who before "spake as a child, understood as a child, thought as a child," now "puts away childish things."

As material light is ever incorporated with heat, resides in fire, is of the same nature

with it, and flows from it, as from its fountain, so is all real, direct mental light animated and energetic; while it irradiates it quickens; it opens at once the field of action, and incites to act; it illuminates the path, and puts the traveller in motion.

I know that the intellectual, as well as the material world, exhibits instances of illumination destitute of activity. The *ignis fatuus* scampers over cold, and moist, and marshy places, and often deceives the unwary traveller to his hurt; the glow-worm sparkles with frigid, cheerless, contracted lustre; the diamond is said to emit rays in the dark, but they partake of the adamantine hardness, coldness, inanimation of the stone from which they proceed; nay, from unprolific putrefaction, I have seen a faint emanation of perishing light. And the counter-part of all this may have been observed in the sphere of science; knowledge misleading, not directing, its possessor; amusing without instructing; a luminous head associated with a flinty heart, a transient splendor issuing from corruption, and hastening back to corruption again; but as all salutary light flows immediately, or by

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reflection, from the Parent of day, and is the guide and comforter of human life, so all beneficial science is from the "Father of lights," the quickening spirit, which animates to honourable exertion, and under whose genial influence "the path of the just, "as the shining light, goeth on unto the "perfect day."

Finally, as material, so mental, light is of easy and simple propagation. I have but to apply my lighted taper to my neighbour's lifeless torch, and it instantly lives and shines, and I am not a whit impoverished. My lamp burns the brighter for the radiance it has communicated; and he whom I have enriched, is enabled to enrich in his turn, not only without loss, but unspeakably to his advantage; and so on to infinity, till all is light, and no darkness remains: Thus while I teach I learn; the more I give away, the more is left for me; and the diffusion of knowledge, like the extension of mercy, "is twice blest; "it blesteth him who gives, and him who "takes."

—But Scripture and experience convey a still much more sublime idea of light than any

hitherto suggested, compared to, and destitute of, which, the light of the sun is the mere glimmering of a taper, and the illumination of science splendid folly; the world of nature a system, of shining baubles, the ways of Providence a labyrinth of inconsistency and contradiction, and the boasted discoveries of human sagacity and industry, pompous nothings.—Light signifies the knowledge that makes wise unto salvation, the divine principle which quickeneth “the dead in trespasses and sins.” “This is life eternal, that they might know thee the only true God, and Jesus Christ whom thou hast sent.” God, the author of this great salvation, is accordingly exhibited under the character of Light. “This is the message,” says St. John, “which we have heard of him, and declare unto you, That God is *light*.” Jesus, the great agent in the work of redemption, is represented under the same image; “a *light* to lighten the Gentiles, and the glory of Israel;”—“in him is life, and the life is the *light* of men”—“John came to be a witness of that LIGHT; He is the true Light, which lighteth every
“man

“man that cometh into the world.” And thus he speaks of himself under the same character, “I am the *light* of the world; he that followeth me shall “not walk in darkness, but shall have the light of life.”—The gospel, or the revelation of the salvation of God, to perishing sinners, is, in both prophetic and historical language, presented to us under the same denomination, and in the preaching of Christ was this Scripture fulfilled, “the people which sat in darkness saw great *light*, and to them which sat in “the region and shadow of death *light* is “sprung up.” The whole word of God bears the same sacred impress. “Thy word,” says the Psalmist, “is a *lamp* unto my feet, “and a *light* unto my path.”—The ministers of religion, the witnesses of the blessed Jesus, are thus likewise honourably distinguished; John Baptist is denominated by the Saviour himself, “a burning and a shining *light*,” and of his apostles in general He saith, “ye “are the *light* of the world.” Finally, all true Christians, every member of that body, whereof Christ is the head, are designed by this as their distinctive character. He calls

them “children of *light*” to distinguish them from the disobedient, impenitent and unbelieving, “for every one that doth evil
 “hateth the light, neither cometh to the
 “light, lest his deeds should be reprov’d ;
 “but he that doth truth cometh to the light,
 “that his deeds may be made manifest, that
 “they are wrought in God.”

Thus salvation, in its rise and progress, in the fountain and in the stream, in its cause, conduct, and effects, is all spiritual light, and life, and joy ; and its consummation shall be similar to, and worthy of, the original design : “with thee, great God, is the
 “fountain of life ; in thy light shall we see
 “light.” “Now we see through a glass,
 “darkly ; but then face to face.” Beloved, now are we the sons of God, and it doth not yet appear what we shall be ; “but we
 “know that when He shall appear, we shall
 “be like him, for we shall see him as He
 “is.” Then “we all with open face, behold-
 “ing, as in a glass, the glory of the Lord,
 “shall be changed into the same image from
 “glory to glory, even as by the spirit of
 “the Lord. Christian, arise, shine, for
 “thy

“thy light is come, and the glory of the
“Lord is risen upon thee.”

And thus, like its divine Author, Light is the origin and issue of all things: The alpha and omega, the first and the last, the beginning and the end of the creation of God; the life and soul of the material, intellectual, and spiritual worlds. And, in proportion as this treasure is possessed, one being is more exalted than another, and the nearer does the creature approach to the Creator. And, thus, a field of exertion, of improvement, of enjoyment, is expanded for the immortal soul of man, of unbounded extent, of everlasting duration. Who of saints, or angels, is “able to comprehend what is the
“breadth, and length, and depth, and height;
“who is able to know the love of Christ,
“which passeth knowledge.” What created vessel can contain all “the fulness of God?”

It remains, not that I *exhort* this Society to persevere in well-doing, in diffusing saving light and knowledge, but that I *congratulate* them on the ample success of their labours of love, on the daily increase of their numbers, and the consequent extension of the means of
doing

doing good. This Charity has now happily attained the 44th year of its existence, its supporters have multiplied from six to upwards of one thousand, its benefits are not restricted to a province, but scattered over a globe, and its influence, unlimited by time and death, reaches into eternity. Blessed is the hand which feeds the hungry, clothes the naked, and sets the prisoner free; blessed the hand which pours the light of cheerful day on the sightless eye-ball, or makes provision for indigent blindness; but more blessed the hand which illuminates the dark soul, ready to "perish for lack of knowledge," which liberates the immortal spirit from the fetters of ignorance, which discloses "the unsearchable riches of Christ" to the slave of sin, and displays the glories of eternity to the miserable wretch whose eyes the God of this world had blinded. If it be in the power of man to create, it is in this respect; to communicate one ray of saving light, is to irradiate a world; to give away a Bible may be the creation of a new sun, the contemplation of which may occasion joy in heaven, cause "the morning stars to sing
" toge-

“together, and all the sons of God to shout
 “for joy.” Blessed communication from God
 to man ! A man enabled to be a God to his
 neighbour, the author of a new existence,
 the fountain of joy unknown before, the
 bestower of life and immortality, the dis-
 penser of a throne above the skies ! Man,
 exalted to the resemblance of his Maker, in
 the most glorious of his perfections ! A por-
 tion of omnipotence, of omnipresence con-
 ferred upon him, a power to say, “let there
 “be light,” and it is done ; let “the sun of
 “righteousness arise with healing in his
 “wings,” and it cometh to pass ; a power to
 make “the Ethiopian change his colour,” to
 transform the naked savage into a child of
 God, to direct the forlorn wanderer in the
 pathless desert, in the way that leads to the
 house of his Father in heaven ; a power “to
 “open men’s eyes, to turn them from dark-
 “ness to light, and from the power of Satan
 “unto God !”

You have heard of the fabulous creation of
 Prometheus ; he is said to have moulded
 clay into the human form, and to have ani-
 mated it with fire stolen from heaven ; this
 creation

creation is no fiction, but a glorious reality, in the hands of this beneficent institution; it finds men mere clay, a lifeless form, and by communication of the celestial fire of God's holy word, they start up into newness of life, they reflect their divine original; and a blessed, an eternal recompence, not relentless punishment, awaits the hallowed theft.

—The posterity of such as were early promoters of this pious design, I beg leave to *congratulate* on their inheriting, together with the name and substance, a portion of the spirit of their forefathers, and I charge them before God and his holy angels, that, whatever else they, in their turn, transmit to their children, they be careful to hand down a serious concern to promote religious knowledge among the poor, and thus become, in the best sense of the word, Fathers to them.

—If there be any present, who have not hitherto had an opportunity of putting forth their hand to this good work, them I *congratulate* on that which now presents itself, of doing themselves more real honour, of procuring more solid satisfaction, and of confer-
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ring on the world a greater benefit, than could in any other way, and at so easy a rate, be purchased: An opportunity of exchanging a bit of otherwise barren, unproductive metal, into the prolific word of life; of converting the price of an hour's entertainment of a wealthy friend, or neighbour, who needs it not, and feels no gratitude for it, into a lasting feast to the souls of men, to be acknowledged by ages unborn, and to be rewarded in heaven: An opportunity of multiplying the wonders of creation, and of enlarging the vast empire of God himself. Were I to argue as a mere man of the world, I could with confidence affirm, that the commerce which I am this day called to recommend, is most lucrative, as well as most honourable; what you here lay out, returns with accumulated interest; the bread you "cast on these waters" "comes back after *not* many days," greatly increased, like the loaves in the Saviour's hand; a few drachms of gold swell into a multitude of Bibles, more to be desired than gold, yea than much fine gold; and thousands are successively, immortally fed by the purchase of a little shining dust.

I congratulate

—I *congratulate* my country on the existence, the success, and the apparent permanency of this institution. Queen of the isles in beauty, in fertility, in opulence, in power, here she is most a queen. What plans of charity and mercy, in respect of number, of munificence, of nobility in design, of promptitude in execution, of felicity in point of effect, are once to be compared to hers? Great indeed is the multitude of her sins, which need to be covered, which constitute her dishonour, disturb her tranquillity, threaten her ruin; but while the principle of benevolence is in such vigour, while the cause of God, and truth, and humanity, has such numerous, zealous and generous supporters; while the comfortable maintenance, and religious instruction of the poorer ranks of the community, are objects of such high importance in the eyes of the more elevated and affluent; we trust it is an earnest that Providence has still many, and great, and lasting, national blessings laid up in store for us. And I call upon all who hear me this day, as they love their country, as they wish her prosperity, as they would preserve her security,

rity, and support her rank amidst the nations of the earth, that they exert themselves to extend the knowledge of God's word, to encourage and inculcate, by admonition, by example, by their prayers, by their influence, a simple and sound morality, a pure and undefiled religion, an unaffected, heart-felt, regular, practical devotion. What you see and feel to be of moment for yourselves to know and to do, that you will see it your duty to recommend to others, that they also may cast in their lot among us, may take part of the honourable burthen, enjoy the satisfaction, and participate in the reward.

—I congratulate the sons of light, “the spirits of just men made perfect,” on the constant addition which Providence is making to their number, by the establishment, support, and success of institutions like ours. It is thus Jehovah is fulfilling the Scriptures, and bringing forward that promised fulness of time, when “the earth shall be filled with the knowledge and glory of the Lord, as the waters cover the sea.” In those happy regions of eternal day, the ransomed of the Lord, for ever emancipated from the darkness
and

and depression of “a body of sin and death,” discern more clearly the designs of Heaven advancing to their accomplishment, the majestic progress of the eternal “purpose, of Him “who worketh all things after the counsel “of his will,” toward its final consummation; gradually extending the empire of saving light along the burning coast of Africa, through the yet inaccessible wilds of America, over the swarming shores washed by the Ganges, to the remote, unknown islands of the Southern hemisphere, within the frozen regions which approach the poles. Behold the hand of heaven removing the veil which covers the eyes of the scattered remnant of the posterity of Abraham; “all Israel saved, “and the fulness of the Gentiles come “in.” Behold, “The heathen given to “Messiah the prince for his inheritance, and “the uttermost parts of the earth for his “possession.” “His name shall endure for “ever; his name shall be continued as long “as the sun; men shall be blessed in Him; “all nations shall call Him blessed.” Amongst the innumerable myriads which encompass the throne, in the fulness of joy, are there not
some

some who were once our associates in these labours of love, who now rest from their labours and their works have followed them? And what bosom does not glow with holy desire, with exalted hope to be united to that assembly, who eternally rejoice in God, behold the face of Christ Jesus, celebrate the triumphs of redeeming love; who look into, admire, adore the plans of infinite wisdom; exulting to reflect that they have been what they have been, that they are what they are, the monuments of free, sovereign grace, and to recollect what, by the grace of God, they have been and done to others: dwelling in the presence of uncreated light, contemplating the new creation of God, themselves a part of it; who behold Jehovah rejoicing in all his works; and the Redeemer, seeing "the travail of his soul," completely, eternally "satisfied."

THE END.

